

can find in Zorabedian is in his background (at col. 2, lines 63-64 and col. 3, line 12), where Zorabedian describes a Helium Neon laser producing a measurement wavelength  $\lambda_m$ , and further describes a separate Nd:YAG laser producing harmonically related correction wavelengths  $\lambda_{c1}$  and  $\lambda_{c2}$ . Thus, it is the Nd:YAG laser, and not the Helium Neon laser, that produces harmonically related wavelengths in Zorabedian. In particular, Zorabedian states:

"The optical path length is independently measured at three wavelengths:  $\lambda_m$ ,  $\lambda_{c1}$ , and  $\lambda_{c2}$ . The measurement wavelength  $\lambda_m$  is delved [sic] from a HeNe laser and is accurately known. The correction wavelengths  $\lambda_{c1}$  and  $\lambda_{c2}$  are harmonically related and are generated from a Nd:YAG laser." (col. 2, lines 61-66)

"The system includes a He-Ne laser operating at a measurement wavelength  $\lambda_m$  and a Nd:YAG fundamental and second harmonic laser operating over the same measurement path at wavelengths  $\lambda_{c1}$  and  $\lambda_{c2}$ ." (col. 3, lines 11-15)

Indeed, even when Zorabedian goes on to describe his own invention in detail, he describes the gain medium for the light source that produces the harmonically related wavelengths as a Nd:YAG crystal or some other semiconductor source:

"The gain medium 18 is a Nd:YAG crystal having polarization independent gain and which is oriented so that it is non-birefringent for light traveling in the direction of the intra-cavity beam." (col. 8, lines 42-45)

"FIG. 9 illustrates another variation of FIG. 2. A glass fiber optical gain medium acts as gain medium 18. The fiber is doped with a lasing impurity, such as Erbium or Praesodymium." (col. 8, lines 55-58)

"FIG. 10 illustrates another variation of FIG. 2. The gain medium 18 is a semiconductor optical amplifier, ..." (col. 9, lines 1-2)

In short, we can find no section in Zorabedian, nor has the pending action pointed to any section, that supports the assertion that "Zorabedian shows a Helium-Neon laser light source for producing two harmonically related, single frequency output beams" (page 2 of the action). Thus, we respectfully ask the Examiner to withdraw the rejection.

Applicant : William A. Skull et al.  
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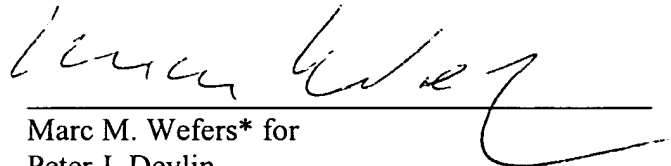
Attorney's Docket No.: 09712-032001 / Z-136

Applicant asks that all claims be allowed. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: \_\_\_\_\_

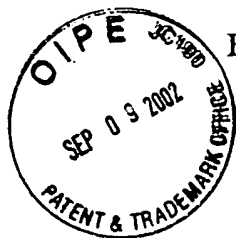
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\*See attached document certifying that Marc M. Wefers has limited recognition to practice before the U.S. Patent and Trademark Office under 37 C.F.R. §10.9(b).



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